Classrooms as Community Clean Energy Beacons

How Our Schools are Advancing Learning, Best Building Energy Practices, and Economic Development

Heather Anderson, Bosch Thermotechnology Corporation
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Classrooms as Community Clean Energy Beacons

Contents

1. Who is Bosch?

2. Why Now? Why NASEO’s Annual Meeting?

3. Bosch Thermotechnology’s Vision

4. Sharing Our Experiences

5. White House Commitment

6. Consultative Partner
Classrooms as Community Clean Energy Beacons

Who is Bosch?
Bosch Background

- Global supplier of technology and services
- Founded in 1886
- Four Business Divisions
  - Mobility Solutions
  - Industrial Technology
  - Consumer Goods
  - Energy and Building Technology
- 440 subsidiaries and regional companies in 150 countries
- 360,000 associates
- $78 billion in annual sales
Bosch in North America Background

- Established in 1906
- 100+ locations
- 28,700 associates
- Power Tools
- Automotive
- Packaging Technology
- Thermotechnology
- Drive and Control Technology
- Software Innovations
- Home Appliances
- Security Systems
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Why Now? Why NASEO’s Annual Meeting?
25+ communities impacted

Over 1,000 students impacted

100+ teachers supported

$10,000,000+ in grants

200+ grants
STEM* Education

Goal
Support the talent pipeline & address the science knowledge gap.

Strategy
• Encouraging students to see themselves in STEM through hands-on learning.
• Supporting teacher training and curriculum.
• Supporting high school students pursuing associate or bachelor degrees.
• Supporting workforce development/career transition.

eco+STEM

Goal
Support environmental education and stewardship.

Strategy
Supporting STEM education through environmental education and activities for young people and adults.

Environmental Sustainability

Goal
Support the conservation and restoration of natural resources.

Strategy
Supporting environmental conservation programs and projects.

Focus areas guide our grant investments to align with RBNA values and provide maximum impact in the community.
TT – our mission statement

„We provide our customers with simply revolutionary solutions for a pleasant indoor climate, hot-water supply, and industrial steam generation and energy conversion.

Our fascinating products improve the quality of life all over the world.

We are the future of Thermotechnology.“
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Lady Bird Johnson Middle School – Irvine, Texas

"The zero-energy school will reinforce teaching and learning as it becomes an extended classroom. With the use of efficient materials and cutting-edge renewable energy technology, the building transforms into a three-dimensional learning space"
Scott Layne, Irving ISD assistant superintendent

“The building user must use the building efficiently in order to capture the operational cost efficiencies of the sustainable systems”
Susan Smith, Corgan Associates Vice President

Sustainable living demonstrated by energy ambassadors educating students, family and community
A $3 million pilot program using a twist on traditional geothermal systems to heat and cool buildings is being tested at a Valley Stream elementary school and has saved the district thousands of dollars in electric bills, increased security and provided stable climate control.

EMILY C. DOOLEY, NewsDay

“I’d love to advertise Buck as the geothermal ‘green’ school in Nassau County”

Thomas Chen, Co-President of the Buck PTA
Outreach

➔ Bosch would commit to **dedicating part of its sales force to focus specifically on outreach to school districts** in low income communities, as well as in extreme climate areas, where energy resiliency is paramount. These activities could include:

➔ **educate stakeholders and decision makers** about the opportunities and benefits of high-efficiency buildings

➔ **Share case studies from existing Bosch school improvement projects** with stakeholders

➔ **Provide best practices** on how other schools integrate energy efficiency projects into student curriculum

Deliverables

➔ **Work with an additional 25 school districts across America to use geothermal resources by 2017**

➔ **Bolster emergency response readiness through implementing geothermal in 10 new emergency operation centers by 2018**

**Summary**

➔ Bosch committed to improving the resiliency of low-income communities in the United States through renewable technology

➔ To foster additional school districts across America using geothermal resources

➔ bolster emergency response readiness in the face of extreme weather events

➔ save money on energy that can be spent on teachers, programs, and supplies
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Consultative Partner

- Adoption & Commitment of Your Users
- Involve All Stakeholders in the Learning & Discussion Process
- Hire Experienced People / Firms; Train Your Maintenance Staff
- Leverage the Budgetary Shortfalls; Secure Commitments
- Appeal to Sustainability / Environmental Stewardship
- Hit on the Intangibles
  - Improves learning environment
  - Reduction in student & teacher absenteeism
  - Provides ability to use school year-round
  - Enhances building security / safety

Challenge Your Own Thinking! Push Boundaries!
THANK YOU

HEATHER ANDERSON
BOSCH THERMOTECHNOLOGY CORPORATION
EMAIL: HEATHER.ANDERSON@US.BOSCH.COM
PHONE: 603.965.7413
www.bosch.com